

This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., January 31, 1916.

MONTHLY LIST OF PUBLICATIONS.

[JANUARY, 1916.]

HOW TO SECURE PUBLICATIONS.

A copy of any of the publications listed herein, including those with price named, except the Journal of Agricultural Research, Experiment Station Record, and publications of the Weather Bureau may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

Instead of writing a letter, applicants may return this list with an "X" plainly marked on the left-hand margin opposite the publication desired, and with name and address plainly written at top or end of list.

After this department's supply of the publications listed below is exhausted, these publications of which the price is indicated can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

SPECIAL NOTICE.

An increasing number of requests for publications is being received daily in this division with incomplete addresses. Many correspondents fail to sign their names. Some do not give post-office address. Persons living in large cities fail to furnish the street address; and some give as the post-office address the name of an office that has been discontinued for years. The department is unable to handle correspondence unless the signature is legible and the post-office address given in full, with street number or rural route number, as the case may be. Correspondents are therefore earnestly requested to see that the complete address is given in all communications addressed to this department.

FARMERS' BULLETINS.—FOR FREE DISTRIBUTION.

No price is quoted for Farmers' Bulletins for the reason that the department's supply of the current numbers is ordinarily sufficient to make it possible to send them free to all applicants.

Pecan Culture; With Special Reference to Propagation and Varieties. By C. A. Reed, Nut Culturist, Office of Horticultural and Pomological Investigations. Pp. 32, figs. 17. Contribution from the Bureau of Plant Industry. Jan. 18, 1916. (Farmers' Bulletin 700.)

Suitable for general distribution.

The Bagworm, An Injurious Shade-Tree Insect. By L. O. Howard and F. H. Chittenden. Pp. 12, figs. 13. Contribution from the Bureau of Entomology. Jan. 15, 1916. (Farmers' Bulletin 701.)

Is suitable for distribution in the southeastern portion of the United States.

Cottontail Rabbits in Relation to Trees and Farm Crops. By D. E. Lantz, Assistant Biologist. Pp. 12, figs. 5. Contribution from the Bureau of Biological Survey. Jan. 17, 1916. (Farmers' Bulletin 702.)

Discusses the distribution and habits of cottontail rabbits and methods of controlling their ravages on trees and cultivated crops by means of trapping, poisoning, and supplying safeguards. For general distribution.

Suggestions for Parcel Post Marketing. By Lewis B. Flohr, Investigator in Marketing by Parcel Post, and C. T. More, Investigator in Grades and Standards. Pp. 19, figs. 8. Contribution from the Office of Markets and Rural Organization. Jan. 14, 1916. (Farmers' Bulletin 703.)

This bulletin is written for producers and consumers in all parts of the country who are interested in marketing by parcel post.

Grain Farming in the Corn Belt with Live Stock as a Side Line. By Carl Vrooman, Assistant Secretary of Agriculture. Pp. 48, figs. 5. Contribution from the Office of the Secretary. Jan. 20, 1916. (Farmers' Bulletin 704.) Of especial interest to farmers in the Middle West States.

DEPARTMENT BULLETINS.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. As long as the department's supply lasts, these bulletins will be supplied free to persons who can use such specialized information. See instructions on page 1.

Breeding Millet and Sorgo for Drought Adaptation. By A. C. Dillman, Physiologist, Office of Alkali and Drought Resistant Plant Investigations. Pp. 19, pls. 2. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 25, 1916. (Department Bulletin 291.) Price, 5 cents.

Report on results obtained in the breeding of millet and sorgo for drought-resistant varieties.

Larch Mistletoe: Some Economic Considerations of Its Injurious Effects. By James R. Weir, Forest Pathologist, Office of Investigations in Forest Pathology. Pp. 27, figs. 13. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 20, 1916. (Department Bulletin 317.) Price, 5 cents.

Describes the injurious effects of the larch mistletoe, and suggests method of control. Of interest to lumbermen and forest owners in the Pacific Northwest.

Fermented Milks. By L. A. Rogers, Bacteriologist in Charge of Research Laboratories, Dairy Division. Pp. 31. Contribution from the Bureau of Animal Industry. (Professional Paper.) Jan. 10, 1916. (Department Bulletin 319.) Price, 5 cents.

Gives food value and various forms of fermented milks together with a bibliography of literature on the subject.

Farm Practice in the Cultivation of Corn. By H. R. Cates, Scientific Assistant, Office of Farm Management. Pp. 67, figs. 40. Contribution from the Office of Farm Management, Office of the Secretary. Jan. 24, 1916. (Department Bulletin 320.) Price, 15 cents.

Gives the results of an extensive study of cultural practice with corn and should be of interest to farmers in all regions where corn is grown.

Cost of Fencing Farms in the North Central States. By H. N. Humphrey, Scientific Assistant. Pp. 32, pls. 5, figs. 10. Contribution from the Office of Farm Management, Office of the Secretary. Jan. 12, 1916. (Department Bulletin 321.) Price, 10 cents.

Will be of interest to farmers and students of agricultural conditions in the North Central States.

Utilization of American Flax Straw in the Paper and Fiber-Board Industry. By Jason L. Merrill, Paper-Plant Chemist, Paper-Plant Investigations. Pp. 24, figs. 8. Contribution from the Bureau of Plant Industry. (Professional Paper.) Jan. 7, 1916. (Department Bulletin 322.) Price, 5 cents.

Gives an account of recent work on the utilization of American seed-flax straw in the paper and fiber-board industry and will be of interest to chemists, flax farmers, counter-board manufacturers, and paper makers in general.

The Milling of Rice and Its Mechanical and Chemical Effect Upon the Grain. By F. B. Wise, Assistant, Office of Grain Standardization, and A. W. Broomell, Assistant Chemist, Food-Control Laboratory. Pp. 31, figs. 11. Contribution from the Bureau of Plant Industry and the Bureau of Chemistry. Jan. 8, 1916. (Department Bulletin 330.) Price, 10 cents.

Gives geographical distribution and value of the rice crop, and describes milling processes and effect of same. Of interest to importers, millers, and shippers of rice products.

The Handling and Shipping of Fresh Cherries and Prunes from the Willamette Valley. By H. J. Ramsey, Pomologist in Charge of Fruit Handling and Storage Investigations. Pp. 28, figs. 11. Contribution from the Bureau of Plant Industry. Jan. 10, 1916. (Department Bulletin 331.) Price, 5 cents.

Will be of interest to fruit growers in the Willamette Valley and similar sections.

Community Production of Egyptian Cotton in the United States. By C. S. Scofield, T. H. Kearney, C. J. Brand, O. F. Cook, and W. T. Swingle (constituting the Committee on Southwestern Cotton Culture). Pp. 30. Contribution from the Bureau of Plant Industry. Jan. 13, 1916. (Department Bulletin 332.) Price, 5 cents.

Tells how Egyptian cotton production became established in the Southwest as a result of community action, describes the present status of the industry, and gives reasons for encouraging the growing of this type of cotton.

A Study of the Tenant Systems of Farming in the Yazoo-Mississippi Delta. By E. A. Boeger, Agriculturist, and E. A. Goldenweiser, Statistician, Office of Farm Management. Pp. 18, figs. 5. Contribution from the Office of Farm Management, Office of the Secretary. (Professional Paper.) Jan. 13, 1916. (Department Bulletin 337.) Price, 5 cents.

Describes method of renting lands, factors of production, labor income, and landlords' profits.

Machinery Cost of Farm Operations in Western New York. By H. H. Mowry, Assistant Agriculturist, Office of Farm Management. Pp. 24. Contribution from the Office of Farm Management, Office of the Secretary. Jan. 18, 1916. (Department Bulletin 338.) Price, 5 cents.

Intended for general distribution.

Farm Management Practice of Chester County, Pa. By W. J. Spillman, Chief, Office of Farm Management, H. M. Dixon, Assistant Agriculturist, G. A. Billings, Agriculturist. Pp. 99, pls. 2, figs. 10. Contribution from the Office of Farm Management, Office of the Secretary. (Professional Paper.) Jan. 17, 1916. (Department Bulletin 341.) Price, 15 cents.

This study is based on the operations of 643 farmers in an old and prosperous agricultural section. It is designed to develop fundamental and broadly applicable principles of good management.

The Present Status of the Pasteurization of Milk. By S. Henry Ayers, Bacteriologist, Dairy Division. Pp. 16, fig. 1. Contribution from the Bureau of Animal Industry. (Professional Paper.) Jan. 8, 1916. (Department Bulletin 342.) Price, 5 cents.

Will be of interest to health officers, medical men, scientific dairymen, and others who may be interested in the subject of pasteurization.

Studies on the Biology of the Arizona Wild Cotton Weevil. By B. R. Coad, Entomological Assistant, Southern Field Crop Insect Investigations. Pp. 23, pls. 2, fig. 1. Contribution from the Bureau of Entomology. (Professional Paper.) Jan. 18, 1916. (Department Bulletin 344.) Price, 5 cents.

The investigations on which this paper is based were conducted under the direction of W. D. Hunter, in charge of Southern Field Crop Insect Investigations, and are of interest to entomologists generally.

MISCELLANEOUS.

Cover Crops for Porto Rico. By C. F. Kinman, Horticulturist. Pp. 32, pls. 8. Jan. 22, 1916. (Bulletin 19, Porto Rico Agricultural Experiment Station.) Price, 10 cents.

SERIALS.

Journal of Agricultural Research. (Issued weekly. For sale only.)

Vol. 5, No. 14. January 3, 1916. Contents: Hourly Transpiration Rate on Clear Days as Determined by Cyclic Environmental Factors. By Lyman J. Briggs and H. L. Shantz.—Effect of Natural Low Temperature on Certain Fungi and Bacteria. By H. E. Bartram. Pp. 583-655, pls., LIII-LV, figs. 22. Price, 10 cents.

Same, No. 15, January 10, 1916. Contents: Effect of Cold-Storage Temperatures upon the Mediterranean Fruit Fly. By E. A. Back and C. E. Pemberton.—Biochemical Comparisons between Mature Beef and Immature Veal. By William N. Berg. Pp. 657-711, figs. 6. Price, 10 cents.

Same, No. 16. January 17, 1916. Contents: Factors Involved in the Growth and the Pycnidium Formation of *Plenodomus fuscomaculans*. By George Herbert Coons.—Effect of Elemental Sulphur and of Calcium Sulphate on Certain of the Higher and Lower Forms of Plant Life. By Walter Pitz. Pp. 713-780, pl. 1. Price, 10 cents.

Same, No. 17. January 24, 1916. Contents: A Serious Disease in Forest Nurseries Caused by *Peridermium filamentosum*. By James R. Weir and Ernest E. Hubert.—Sweet-Potato Scurf. By L. L. Harter.—Banana as a Host Fruit of the Mediterranean Fruit Fly. By E. A. Back and C. E. Pemberton.—Effect of Controllable Variables upon the Penetration Test for Asphalts and Asphalt Cements. By Prevost Hubbard and F. P. Pritchard. Pp. 781-818, pls. LVII-LXII. Price, 10 cents.

Same, No. 18. January 31, 1916. Contents: Effects of Refrigeration upon the Larvæ of *Trichinella spiralis*. By B. H. Ransom.—Relation Between Certain Bacterial Activities in Soils and Their Crop-Producing Power. By Percy Edgar Brown. Pp. 819-869. Price, 10 cents.

NOTE.—Beginning with Volume 5, THE JOURNAL OF AGRICULTURE RESEARCH will be issued weekly and distributed free only to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being \$3.00 per year, 52 numbers.

Experiment Station Record, Vol. XXXIV, No. 1, January, 1916. E. W. Allen, Ph. D., Editor. Pp. 1-100. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at \$1 a volume.

The Monthly Crop Report. Vol. 2, No. 1, Jan. 31, 1916. Pp. 1-12. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices and value of crops and live stock, and the estimated number and value of live stock in the United States in 1915. For free distribution.

SERVICE AND REGULATORY ANNOUNCEMENTS.

These contain *only* information, instructions, and notices governing the enforcement of the food and drug act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Animal Industry. No. 104. December, 1915. Pp. 129-138. Jan. 26, 1916. Price, 5 cents.

Bureau of Chemistry. No. 16. Pp. 25-33. Jan. 26, 1916. Price, 5 cents.

Federal Horticultural Board. No. 23. December, 1915. Pp. 91-99. Jan. 29, 1916. Price, 5 cents.

Office of Markets and Rural Organization. No. 6. Pp. 32, figs. 12. Jan. 24, 1916. Price, 5 cents.

SOIL SURVEYS.

All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that Bureau.

Soil Survey of Lawrence County, Alabama. By H. G. Lewis, of the U. S. Department of Agriculture, and J. E. Stroud, of the Alabama Department of Agriculture and Industries. Pp. 50, figs. 2, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Limestone County, Alabama. By R. T. Avon Burke, of the U. S. Department of Agriculture, and A. M. O'Neal, Jr., of the Alabama Department of Agriculture and Industries. Pp. 41, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Grundy County, Missouri. By A. T. Sweet, of the U. S. Department of Agriculture, and W. I. Watkins, of the University of Missouri. Pp. 34, pl. 2, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Harrison County, Missouri. By E. S. Vanatta, of the U. S. Department of Agriculture, and E. W. Knobel, of the University of Missouri. Pp. 36, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin, No. 32, December, 1915, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

Snow and Ice Bulletins for January 4, 11, 18, 25. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.